

Title (en)

Process for the preparation of urethane resins and urethan resin compositions

Title (de)

Verfahren für die Zubereitung von Urethanharzen und Urethanharzzusammensetzungen

Title (fr)

Processus de préparation de résines d'uréthane, et compositions de résine d'uréthane

Publication

EP 1997842 A3 20100908 (EN)

Application

EP 08008915 A 19980617

Priority

- EP 98928516 A 19980617
- JP 16007997 A 19970617

Abstract (en)

[origin: EP0919582A1] A process for the preparation of urethane resins, which comprises the steps of reacting a silicon compound having one organic group (I) having one primary amino, acryloyl, epoxy or mercapto group in the group and at least one hydrolyzable group bonded to the silicon atom with an organic compound having an organic group (II) reactive with the organic group (I) to prepare a silicon compound (product A) having a secondary amino or hydroxyl group, reacting a polyol compound with a polyisocyanate compound to prepare a urethane prepolymer (product B) containing terminal NCO groups in an amount of 4 % or below, and reacting the product A with the product B in proportions of at least 0.5 equivalent of the product A per free NCO group of the product B; and resin compositions containing the urethane resins prepared by the process. The process can readily give urethane resins which exhibit excellent storage stability and are enhanced in the degrees of freedom of physical properties of products of curing. <IMAGE>

IPC 8 full level

C08G 18/10 (2006.01); **C08G 18/67** (2006.01); **C08G 18/83** (2006.01)

CPC (source: EP US)

C08G 18/10 (2013.01 - EP US); **C08G 18/672** (2013.01 - EP US); **C08G 2170/20** (2013.01 - EP US); **C08G 2190/00** (2013.01 - EP US)

C-Set (source: EP US)

1. **C08G 18/10 + C08G 18/289**
2. **C08G 18/10 + C08G 18/3256**
3. **C08G 18/10 + C08G 18/3893**

Citation (search report)

- [X] US 5225512 A 19930706 - BAGHDACHI JAMIL [US], et al
- [X] EP 0372561 A2 19900613 - ASAHI GLASS CO LTD [JP]
- [I] EP 0596360 A1 19940511 - BAYER AG [DE]
- [I] US 4067844 A 19780110 - BARRON LARRY R, et al

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RU2658062C2

Designated contracting state (EPC)

BE CH DE FR GB LI

DOCDB simple family (publication)

EP 0919582 A1 19990602; **EP 0919582 A4 20041229**; EP 1997842 A2 20081203; EP 1997842 A3 20100908; JP 3317353 B2 20020826; US 2003092867 A1 20030515; US 7208560 B1 20070424; US 7230064 B2 20070612; WO 9858007 A1 19981223

DOCDB simple family (application)

EP 98928516 A 19980617; EP 08008915 A 19980617; JP 50413499 A 19980617; JP 9802661 W 19980617; US 24252598 A 19980617; US 8521302 A 20020228